

GP-303148

COORDINATED ENGINE CONTROL FOR
LEAN NO_x TRAP REGENERATION

ABSTRACT OF THE DISCLOSURE

A method for controlling a direct-injection gasoline engine during regeneration of a lean NO_x trap disposed in an exhaust path of the engine includes determining the current air-fuel ratio and comparing the
5 current air-fuel ratio to a lean limit air-fuel ratio. Transitions from lean stratified engine operation to rich homogenous engine operation are delayed until the current air-fuel ratio reaches the lean limit air-fuel ratio.